

CORNELL UNIVERSITY

OFFICIAL PUBLICATION

SEPTEMBER 9, 1951

Independent Departments

MILITARY SCIENCE AND TACTICS

AIR SCIENCE AND TACTICS

NAVAL SCIENCE

PHYSICAL EDUCATION, MEN

PHYSICAL EDUCATION, WOMEN

CLINICAL AND PREVENTIVE MEDICINE



ANNOUNCEMENT FOR 1951-52 SESSIONS

The University Calendar

1951-52

FALL TERM

Freshman Orientation begins. Sept. 14, *Friday*
Registration Sept. 17-18, *Monday and Tuesday*
Instruction begins. Sept. 19, *Wednesday*, 1 p.m.
Midterm grades due. Nov. 7, *Wednesday*
Thanksgiving recess:
 Instruction suspended. Nov. 21, *Wednesday*, 12:50 p.m.
 Instruction resumed. Nov. 26, *Monday*, 8 a.m.
Christmas recess:
 Instruction suspended. Dec. 19, *Wednesday*, 10 p.m.
 Instruction resumed. Jan. 3, *Thursday*, 8 a.m.
Examinations begin. Jan. 21, *Monday*
Examinations end. Jan. 30, *Wednesday*
Midyear holiday. Jan. 31, *Thursday*

SPRING TERM

Registration Feb. 1-2, *Friday and Saturday*
Instruction begins. Feb. 4, *Monday*
Midterm grades due. Mar. 22, *Saturday*
Spring recess:
 Instruction suspended. Mar. 22, *Saturday*, 12:50 p.m.
 Instruction resumed. Mar. 31, *Monday*, 8 a.m.
Examinations begin. May 26, *Monday*
Examinations end. June 3, *Tuesday*
Commencement Day. June 9, *Monday*

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The Independent Departments

THIS Announcement contains information concerning the courses of instruction offered by the Departments of Military Science and Tactics, Air Science and Tactics, Naval Science, Physical Education, and Clinical and Preventive Medicine. These departments are similar in that they serve the entire University and are not divisions of any school or college.

CREDITS

In the course descriptions that follow the academic credit indicated will be recorded by the University Registrar for the successful completion of each course. Whether or not credit thus recorded will be counted by a college or school in satisfaction of its requirements for a particular degree is determined, however, by the faculty of the school or college concerned. For this information, the student should consult the Announcement of the academic division in which he is enrolled.

UNIVERSITY REQUIREMENTS

The University Faculty has established certain requirements for a baccalaureate degree in addition to those prescribed by the faculty of the school or college which administers the degree. These requirements are administered by the Committee on Requirements for Graduation. Any student who wishes to consult the Committee concerning his status should first consult the member of the Committee who represents the school or college in which he is enrolled. The Committee consists of the following:

Dean C. C. Murdock, *Chairman*

Professor C. A. Hanson (School of Industrial and Labor Relations)

Director A. W. Gibson (College of Agriculture)

Associate Dean M. L. Hulse (College of Arts and Sciences)

Director H. B. Meek (School of Hotel Administration)

Professor Peter Olafson (Veterinary College)

Director H. J. Loberg (College of Engineering)

Associate Professor Esther Stocks (College of Home Economics)

Professor S. M. Barnette (College of Architecture)

THE REQUIREMENT IN PHYSICAL TRAINING

The University Faculty has established the following requirements in physical training for all students:

1. All undergraduate students must complete four terms of work, three hours a week, in physical training.

2. The requirement in physical training is a requirement of the first four terms, and postponements are to be allowed only by consent of the University Faculty Committee on Requirements for Graduation.

3. Exemptions from the requirement may be made by the Committee on Requirements for Graduation when recommended by the Medical Office or by the Department of Physical Education, or because of unusual conditions of age, residence, or outside responsibilities. An exemption recommended by the Department of Physical Education shall be given only to students who meet standards of physical condition established by the Department of Physical Education and approved by the Committee on Requirements for Graduation. Students who have been discharged from the armed forces may be exempted.

4. For students entering with advanced standing, the number of terms of physical training required is to be reduced by the number of terms which the student has satisfactorily completed (not necessarily including physical training) in a college of recognized standing.

5. Responsibility for the interpretation of the requirement and for its application in individual cases is placed upon the Committee on Requirements for Graduation.

The University requirement in physical training may be satisfied by four terms of work in the Department of Physical Education. For this purpose Physical Education 1, 2, 3, and 4 are available to men and Physical Education 51, 52, 53, and 54, to women.

THE REQUIREMENT IN MILITARY SCIENCE

The University Faculty has established the following requirement in military science for male students:

1. All undergraduate men students must complete four terms of work, three hours a week, in military science.

2. The requirement in military science is a requirement of the first four terms, and postponements are to be allowed only with the consent of the University Faculty Committee on Requirements for Graduation.

3. Exemptions from the requirement may be granted to aliens, to conscientious objectors, and to students recommended for exemption by the University Medical Office. It is recognized that some other conditions, such as those of age, residence, or unusual outside responsibilities may be accepted as basis for exemption within the judgment of the Committee on Requirements for Graduation.

4. The requirement may be offset by work taken in military science in institutions of recognized collegiate standing and in military schools approved in this regard by the Department of the Army or the Department of the Air Force.

5. For students entering with advanced standing, the number of

terms of Military Science required is to be reduced by the number of terms which the student has satisfactorily completed (not necessarily including military science) in a college of recognized standing.

6. Responsibility for the interpretation of the requirement and for its application in individual cases is placed upon the Committee on Requirements for Graduation.

7. Students who have been enrolled in the armed services are exempted from the requirement in military science by virtue of such service.

8. A special student admitted for a period of less than two years is exempted from the requirement in military science during that period.

9. A student who is enrolled in a regularly constituted reserve component of the armed forces and who is pursuing a training program approved by the Committee on Requirements for Graduation may be allowed to postpone the satisfaction of the military science requirement while he is so enrolled and any student who satisfactorily completes twelve months in such a program shall have thereby satisfied two terms of the University military science requirement.

The University requirement in military science may be satisfied by work taken in any one of three departments, the Department of Military Science and Tactics, the Department of Air Science and Tactics, or the Department of Naval Science. Each department offers a four-year course, the first two years of which satisfy the University requirement. An entering student will be assigned to one of these divisions prior to his registration in the University. This assignment will be made on the basis of his personal choice subject to quota limitations.

Specifically the requirement may be satisfied

(a) by four terms of work in the Department of Military Science and Tactics (Military Science 1, 2, and one of the following pairs: 23, 24; 33, 34; 43, 44; 53, 54; or by Military Science 61, 62, 63, 64);

(b) by four terms of work in the Department of Air Science and Tactics (Air Science 1, 2, 3, 4); or

(c) by four terms of work in the Department of Naval Science while the student is registered either as a regular student or as a contract student in the Naval ROTC (Naval Science 101, 102, 201, 202).

Military Science and Tactics

The four-year course presented by the Department of Military Science and Tactics has two objectives. The first is to promote national defense by laying the foundation of a citizenship which is cognizant and capable of its military responsibilities to the country. The second is to produce junior officers who have the attributes and knowledge essential to their continued development in the U.S. Army.

The first two years of this course, Basic ROTC, are part of the University requirements for a baccalaureate degree unless the student satisfies this requirement by other means. The third and fourth years, Advanced ROTC, are elective and qualify a student for appointment in the Officers' Reserve Corps, U.S. Army, or the Regular Army.

Specialized training is offered during the last three years of the course in four branches of the Army: Artillery, Ordnance, Quartermaster, and the Signal Corps; and for four years in the Veterinary Corps. The choice of one of these branches will be made during the second term of Basic ROTC, based on the student's personal election and subject to quota limitations. The Ordnance Unit gives preference to students enrolled in the Schools of Engineering or students from other colleges majoring in science. Preveterinary students will comply with University requirements for Basic ROTC. Upon entrance into the Veterinary College, the student may elect to continue in Veterinary ROTC as outlined below. Veterinary ROTC students take one hour of ROTC work per week throughout their four-year course. In the other Army branches, the Basic Course students take one hour of drill and two hours of classroom or laboratory work per week; and the Advanced Course students take one hour of drill and four hours of classroom or laboratory work per week.

1. *BASIC ROTC*. Fall term. Credit two hours. Fourteen sections. Hours: lectures or laboratories M and W at 8, 9, 10, 11, or 12; T and Th at 8, 9, 10, 11, or 12; M and W at 3; W and F at 3; S 8-10; S 10-12; drill for one hour any afternoon M through F at 2.

Two hours a week of lecture and practical application in military organization, military policy of the U.S., evolution of warfare, and map reading.

2. *BASIC ROTC*. Spring term. Credit two hours. Prerequisite, M.S. 1. Fourteen sections. Hours: lectures or laboratories M and W at 8, 9, 10, 11, or 12; T and Th at 8, 9, 10, 11, or 12; M and W at 3; W and F at 3; S 8-10; S 10-12; drill for one hour any afternoon M through F at 2.

Two hours a week of lecture and practical application in weapons and marksmanship.

23. *BASIC ROTC*. Artillery. Fall term. Credit two hours. Prerequisite, M.S. 2. Six sections. Hours: lectures or laboratories M and W at 8 or 10; T and Th 8, 10, or 11; F 10-12; drill for one hour any afternoon M through F at 2.

Two hours a week of lecture and practical application in Artillery organization, materiel, and service of the piece.

24. *BASIC ROTC*. Artillery. Spring term. Credit two hours. Prerequisite, M.S. 23. Six sections. Hours: lectures or laboratories M and W at 8 or 10; T and Th at 8, 10, or 11; Friday 10-12; drill for one hour any afternoon M through F at 2.

Two hours a week of lecture and practical application in instruments, communications, and motors and transportation.

25. *ADVANCED ROTC*. Artillery. Fall term. Credit three hours. Prerequisite, M.S. 24. Four sections. Hours: lectures or laboratories M, W, and F at 8 or 11; T, Th, and S at 9 or 12; one hour common class any afternoon T through F at 3; drill one hour any afternoon T through F at 2.

Four hours a week of lecture and practical application in communications, duties of Battery Executive, artillery tactics, and surveying.

26. *ADVANCED ROTC*. Artillery. Spring term. Credit three hours. Prerequisite, M.S. 25. Four sections. Hours: lectures or laboratories M, W, and F at 8 or 11; T, Th, and S at 9 or 12; one hour common class any afternoon T through F at 3; drill one hour any afternoon T through F at 2.

Four hours a week of lecture and practical application in individual weapons and preliminary marksmanship and gunnery.

27. *ADVANCED ROTC*. Artillery. Fall term. Credit three hours. Prerequisite, M.S. 26. Three sections. Hours: lectures or laboratories M, W, and F at 9 or 12; T, Th, and S at 10; one hour common class M, T, or W at 3; drill one hour M, T, or W at 2.

Four hours a week of lecture and practical application in gunnery, surveying, and the fire direction center.

28. *ADVANCED ROTC*. Artillery. Spring term. Credit three hours. Prerequisite, M.S. 27. Three sections. Hours: lectures or laboratories M, W, and F at 9 or 12; T, Th, and S at 10; one hour common class M, T, or W at 3; drill one hour M, T, or W at 2.

Four hours a week of lecture and practical application in command and staff, combat intelligence, the military team, new developments, and tactics.

33. *BASIC ROTC*. Ordnance. Fall term. Credit two hours. Prerequisite, M.S. 2. Four sections. Hours: lectures or laboratories M and W 10 or 11; T and Th 8 or 11; drill one hour any afternoon M through F at 2.

Two hours a week of lecture and practical application in the role of Ordnance automotive materiel and small arms materiel.

34. *BASIC ROTC*. Ordnance. Spring term. Credit two hours. Prerequisite, M.S. 33. Four sections. Hours: lectures or laboratories M and W 10 or 11, T and Th 8 or 11; drill for one hour any afternoon M through F at 2.

Two hours a week of lecture and practical application in ammunition materiel, artillery materiel, and fire control materiel.

35. *ADVANCED ROTC*. Ordnance. Fall term. Credit three hours. Prerequisite, M.S. 34. Two sections. Hours: lectures or laboratories T, Th, and S at 9 or 12; one hour common class Th or F at 3; drill one hour Th or F at 2.

Four hours a week of lecture and practical application in functional organization of Ordnance corps, automotive materiel, and small arms materiel.

36. *ADVANCED ROTC*. Ordnance. Spring term. Credit three hours. Prerequisite,

M.S. 35. Two sections. Hours: lectures or laboratories T, Th, and S at 9 or 12; one hour common class Th or F at 3; drill one hour Th or F at 2.

Four hours of lectures and practical application in ammunition supply, ammunition materiel, artillery materiel, fire control materiel, and individual weapons and marksmanship.

37. *ADVANCED ROTC*. Ordnance. Fall term. Credit three hours. Prerequisite, M.S. 36. Two sections. Hours: lectures or laboratories M, W, and F 9 or 12; one hour common class M, T, or W at 3; drill one hour M, T, or W at 2.

Four hours a week of lecture and practical application in maintenance and supply, command and staff and combat intelligence.

38. *ADVANCED ROTC*. Ordnance. Fall term. Credit three hours. Prerequisite, M.S. 37. Two sections. Hours: lectures and laboratories M, W, and F 9 or 12; one hour common class M, T, or W at 3; drill one hour M, T, or W at 2.

Four hours a week of lecture and practical application in military specialty project.

43. *BASIC ROTC*. Signal Corps. Fall term. Credit two hours. Prerequisite, M.S. 2. Four sections. Hours: lectures and laboratories M and W 10; T and Th 8 or 11; W and F 8; drill for one hour any afternoon M through F at 2.

Two hours a week of lecture and practical application in introduction to signal communications.

44. *BASIC ROTC*. Signal Corps. Spring term. Credit two hours. Prerequisite, M.S. 43. Four sections. Hours: lectures and laboratories M and W at 10; T and Th 8 or 11; W and F 8; drill for one hour any afternoon M through F at 2.

Two hours a week of lecture and practical application in organization and mission of the Signal Corps, organization and signal communication practices at infantry, armored, and airborne divisions.

45. *ADVANCED ROTC*. Signal Corps. Fall term. Prerequisite, M.S. 44. Two sections. Hours: lectures and laboratories T, Th, S at 9 or 12; one hour common class M or T at 3; drill one hour M or T at 2.

Four hours a week of lecture and practical application in communication security, signal orders, field wire communications, and field radio communications fundamentals.

46. *ADVANCED ROTC*. Signal Corps. Spring term. Credit three hours. Prerequisite, M.S. 45. Two sections. Hours: lectures or laboratories T, Th, and S at 9 or 12; one hour common class M or T at 3; drill one hour M or T at 2.

Four hours a week of lecture and practical application in applied signal communications, communication center, signal supply and repair, career guidance, and weapons and marksmanship.

47. *ADVANCED ROTC*. Signal Corps. Fall term. Credit three hours. Prerequisite, M.S. 46. Two sections. Hours: lectures and laboratories M, W, and F 9 or 12; one hour common class W, Th, or F at 3; drill one hour W, Th, or F at 2.

Four hours a week of lecture and practical application in wire and radio communication materiel.

48. *ADVANCED ROTC*. Signal Corps. Spring term. Credit three hours. Prerequisite, M.S. 47. Two sections. Hours: lectures and laboratories M, W, and F at 9 or 12; one hour common class, W, Th, or F at 3; drill one hour, W, Th, or F at 2.

Four hours a week of lecture and practical application in higher echelon, signal communication and equipment, post signal operations and administrative procedure, career guidance, darkroom technique and photographic practices, command and staff, and combat intelligence.

53. *BASIC ROTC*. Quartermaster. Fall term. Credit two hours. Prerequisite, M.S.

2. Six sections. Hours: lectures or laboratories M and W at 8 or 10; T and Th at 8, 10, or 11; F 10-12; drill one hour M through F at 2.

Two hours a week of lecture and practical application in supply in the Army, organization of QM, classification of QM supplies, accountability and responsibility of property, and research and development of supplies in QMC.

54. *BASIC ROTC*. Quartermaster. Spring term. Credit two hours. Prerequisite M.S. 53. Six sections. Hours: lectures or laboratories M and W at 8 or 10; T and Th at 8, 10, or 11; F 10-12; drill one hour M through F at 2.

Two hours a week of lecture and practical application in organization, functions, and operation of QM units, unit and organizational supply.

55. *ADVANCED ROTC*. Quartermaster. Fall term. Credit three hours. Prerequisite, M.S. 54. Four sections. Hours: lectures or laboratories M, W, and F at 8 or 11; T, Th, and S at 9 or 12; one hour common class M through Th at 3; drill one hour M through Th at 2.

Four hours a week of lecture and practical application in station supply, depot supply, storage, warehousing, and materiel handling.

56. *ADVANCED ROTC*. Quartermaster. Spring term. Credit three hours. Prerequisite M.S. 55. Four sections. Hours: lectures or laboratories M, W, and F at 8 or 11; T, Th, and S at 9 or 12; one hour common class M through Th at 3; drill one hour M through Th at 2.

Four hours a week of lecture and practical application in procurement, storage and distribution of petroleum products, commissary operations, garrison and field bakery operations, post and field laundry operations, salvage operation and procedure, maintenance and reclamation of QM supplies, graves registration and mortuary activities, food service activities, and individual weapons and marksmanship.

57. *ADVANCED ROTC*. Quartermaster. Fall term. Credit three hours. Prerequisite M.S. 56. Three sections. Hours: lectures or laboratories M, W, and F at 9 or 12; T, Th, and S at 10; one hour common class W, Th, or F at 3; drill one hour W, Th, or F at 2.

Four hours a week of lecture and practical application in fiscal procedures, procurement procedures, command and staff, combat intelligence, technical intelligence, and organizations and functions of the combatant arms.

58. *ADVANCED ROTC*. Quartermaster. Spring term. Credit three hours. Prerequisite, M.S. 57. Three sections. Hours: lectures or laboratories M, W, and F at 9 or 12; T, Th, and S at 10; one hour common class, W, Th, or F at 3; drill one hour, W, Th, or F at 2.

Four hours a week of lecture and practical application in organization and functions of the technical services, QM operations in the zone of the interior, and QM operations in the theater of operations.

61. *BASIC ROTC. VETERINARY*. Fall term. Credit one hour. Hours: as scheduled by the Veterinary College.

One hour of lecture and/or recitation a week in world situation, national defense and ROTC, military obligations of citizenship, organization of the Army, and military law.

62. *BASIC ROTC. VETERINARY*. Spring term. Credit one hour. Hours: as scheduled by the Veterinary College. Prerequisite, M.S. 61.

One hour of lecture and/or recitation a week in world situation, national defense and ROTC, organization of the Medical Department, courtesies and customs of the service, military training methods, veterinary military history, and military administration.

63. *BASIC ROTC. VETERINARY.* Fall term. Credit one hour. Hours: as scheduled by the Veterinary College. Prerequisite, M.S. 62.

One hour of lecture and/or recitation a week in world situation, national defense and ROTC; duties of the veterinarian and his relationship to surgeon, veterinary administration; introduction to map reading; and management of army animals.

64. *BASIC ROTC. VETERINARY.* Spring term. Credit one hour. Hours: as scheduled by the Veterinary College. Prerequisite, M.S. 63.

One hour of lecture and/or recitation a week in world situation, national defense and ROTC, veterinary service, zone of the interior, organization and employment of veterinary service of a field army, veterinary service zone of communication, Medical Department supply.

65. *ADVANCED ROTC. VETERINARY.* Fall term. Credit one hour. Hours: as scheduled by the Veterinary College. Prerequisite, M.S. 64.

One hour of lecture and/or recitation a week in world situation, national defense and ROTC, subsistence procurement and the Quartermaster market center system, veterinary military meat and dairy hygiene, procurement and physical examination of animals, movement of animals by rail, water, and air, and general consideration of Army veterinary service.

66. *ADVANCED ROTC. VETERINARY.* Spring term. Credit one hour. Hours: as scheduled by the Veterinary College. Prerequisite, M.S. 65.

One hour of lecture and/or recitation a week in world situation, national defense and ROTC, veterinary military meat and dairy hygiene.

67. *ADVANCED ROTC. VETERINARY.* Fall term. Credit one hour. Hours: as scheduled by the Veterinary College. Prerequisite, M.S. 66.

One hour of lecture and/or recitation a week in world situation, national defense and ROTC, veterinary military preventive medicine, veterinary medical aspects of atomic and chemical warfare, personnel management.

68. *ADVANCED ROTC. VETERINARY.* Spring term. Credit one hour. Hours: as scheduled by the Veterinary College. Prerequisite, M.S. 67.

One hour of lecture and/or recitation a week in world situation, national defense and ROTC, inspection of foods of animal origin.

Air Science and Tactics

The students enrolled in courses in the Department of Air Science and Tactics constitute the Cornell unit of the Air Force Reserve Officers' Training Corps. This corps has two missions. The first is to lay the foundations of intelligent citizenship and to give the student such basic military training as will be of benefit to himself and to the military service if he becomes a member thereof. The second is to produce junior officers who have the qualities and attributes essential to their progressive and continued development as officers of the United States Air Force.

The course of instruction is four years in duration. Completion of the first two years satisfies the University requirements in military science (see page 5). The third and fourth years of instruction for Advanced Air Force ROTC are elective, and successful completion qualifies the student for appointment as a Second Lieutenant in the United States Air Force Reserve. No flying training is offered in this program; students are trained for ground duty with the Air Force.

The Air Force offers three courses of specialization to Advanced Course students: Administration and Logistics, Armament, and Communications. Selection of students to continue in the Advanced Course in one of these specialties will be made in the second year of Air Force ROTC instruction. Engineering students, and others selected because they are majoring in mathematics or physics or an allied technical field, are eligible to specialize in Armament or Communications. Students who are pursuing nontechnical academic courses will specialize in Administration and Logistics.

1. *BASIC AIR FORCE ROTC*. Fall term. Credit two hours. Hours: M and W at 8, 10, 11, or 2 (three sections); T and Th at 8, 10, 11, 12, or 2 (three sections); or F at 10 and 11. In addition to the above, one hour of leadership, drill, and exercise of command any afternoon (M through F) at 3.

Two hours a week of instruction and practical application in military power in the modern world, maps and aerial photographs, and one hour of leadership, drill, and the exercise of command.

2. *BASIC AIR FORCE ROTC*. Spring term. Credit two hours. Prerequisite, Basic Air Force ROTC 1. Hours: M and W at 8, 10, 11, or 2 (three sections); T and Th at 8, 10, 11, 12, or 2 (three sections); or F at 10 and 11. In addition to the above, one hour of leadership, drill, and the exercise of command any afternoon (M through F) at 3.

Two hours a week of instruction and practical application in foundations of military power, global geography, and personal maintenance. One hour of leadership, drill, and the exercise of command.

3. *BASIC AIR FORCE ROTC*. Fall term. Credit two hours. Prerequisite, Basic

Air Force ROTC 2. Hours: M and W at 8, 10, 11, or 2 (two sections); or T and Th at 8, 10, 11, 12, or 2 (two sections); or F 10 and 11. In addition to the foregoing, one hour of leadership, drill, and the exercise of command any afternoon (M through F) at 3.

Two hours a week of instruction and practical application in aerodynamics and propulsion, and navigation, and one hour of leadership, drill, and exercise of command.

4. *BASIC AIR FORCE ROTC*. Spring term. Credit two hours. Prerequisite, Basic Air Force ROTC 3. Hours: M and W at 8, 10, 11, or 2 (two sections); or T and Th at 8, 10, 11, 12, or 2 (two sections); or F 10 and 11. In addition to the foregoing, one hour of leadership, drill, and the exercise of command any afternoon (M through F) at 3.

Two hours a week of instruction and practical application in meteorology and applied air power, and one hour of leadership, drill, and exercise of command.

75. *ADVANCED AIR FORCE ROTC*. Administration and Logistics. Fall term. Credit three hours. Prerequisite, Basic Air Force ROTC 4. Hours: M at 2, and T, Th, and S at 12; or T, Th, and S at 9 and W at 2; or T, Th, and S at 8 and T at 2, and one hour any afternoon (M through F) at 3. Open to juniors who are pursuing a nontechnical curriculum.

Four hours a week of instruction and practical application in logistics, air operations, and air, motor, and commercial transportation.

One hour a week in instruction and practical application in leadership, drill, and the exercise of command.

76. *ADVANCED AIR FORCE ROTC*. Administration and Logistics. Spring term. Credit three hours. Prerequisite, A. S. 75. Hours: M at 2, and T, Th, and S at 12; or T, Th, and S at 9 and W at 2; or T, Th, and S at 8 and T at 2, and one hour any afternoon (M through F) at 3. Open to juniors pursuing a nontechnical curriculum.

Four hours a week of instruction and practical application in individual records, nonappropriated funds, and Air Force supply.

One hour a week of instruction and practical application in leadership, drill, and the exercise of command.

77. *ADVANCED AIR FORCE ROTC*. Administration and Logistics. Fall term. Credit three hours. Prerequisite, A. S. 76. Hours: M, W, and F at 8 and M or T at 2; or M, W, and F at 9 and M or T at 2; or M, W, and F at 12 and F at 2; and one hour any afternoon (M through F) at 3.

Four hours a week of instruction and practical application in military teaching methods, military management, Air Force inspection systems, and military law and boards.

One hour a week of instruction and practical application in military leadership, drill, and exercise of command.

78. *ADVANCED AIR FORCE ROTC*. Administration and Logistics. Spring term. Credit three hours. Prerequisite, A. S. 77. M, W, and F at 8 and M or T at 2; or M, W, and F at 9 and M or T at 2; or M, W, and F at 12 and F at 2; and one hour any afternoon (M through F) at 3.

Four hours a week of lecture and practical application in career development, Air Force staff functions, food service supervision, administration of personnel, and functions of the Air comptroller.

One hour a week of instruction and practical application in military leadership, drill, and exercise of command.

85. *ADVANCED AIR FORCE ROTC*. Communications. Fall term. Credit three hours. Prerequisite, Basic Air Force ROTC 4. Hours: M at 2, and T, Th, and S at

12, or T, Th, and S at 9 and W at 2; and one hour any afternoon (M through F) at 3. Open to juniors who are pursuing an engineering curriculum.

Four hours a week of instruction and practical application in logistics, air operations, wire communications, and communications supply and maintenance.

One hour a week of instruction and practical application in leadership, drill, and the exercise of command.

86. *ADVANCED AIR FORCE ROTC*. Communications. Spring term. Credit three hours. Prerequisite, A. S. 85. Hours: M at 2; and T, Th, and S at 12; or T, Th, and S at 9 and W at 2; and one hour any afternoon (M through F) at 3.

Four hours a week of instruction and practical application in radio, radar, visual, and aural communications.

One hour a week of instruction and practical application in leadership, drill, and the exercise of command.

87. *ADVANCED AIR FORCE ROTC*. Communications. Fall term. Credit three hours. Prerequisite, A. S. 86. Hours: M, W, and F at 9 and M or T at 2; or, M, W, and F at 12 and M or T at 2; and one hour any afternoon (M through F) at 3.

Four hours of instruction and practical application in military teaching methods, military management, Air Force inspection systems, and military law and boards.

One hour a week of instruction and practical application in military leadership, drill, and exercise of command.

88. *ADVANCED AIR FORCE ROTC*. Communications. Spring term. Credit three hours. Prerequisite, A. S. 87. Hours: M, W, and F at 9 and M or T at 2; or, M, W, and F at 12 and M or T at 2; and one hour any afternoon (M through F) at 3.

Four hours of instruction and practical application in career development, and communications command and administration, inspections, training, communications centers and message handling, functional communications systems and communications organization.

One hour a week of instruction and practical application in leadership, drill, and the exercise of command.

95. *ADVANCED AIR FORCE ROTC*. Armament. Fall term. Credit three hours. Prerequisite, Basic Air Force ROTC 4. Hours: M at 2, and T, Th, and S at 12; or T, Th, and S at 9 and W at 2; and one hour any afternoon (M through F) at 3. Open to juniors who are pursuing an engineering curriculum or who are majoring in mathematics, physics, or an allied technical field.

Four hours a week of instruction and practical application in logistics and air operations, 20-mm. automatic gun, aircraft machine guns, rocket launchers, and bombing accessories.

One hour of instruction and practical application in leadership, drill, and the exercise of command.

96. *ADVANCED AIR FORCE ROTC*. Armament. Spring term. Credit three hours. Prerequisite, A. S. 95. Hours: M at 2, and T, Th, and S at 12; or T, Th, and S at 9 and W at 2; and one hour any afternoon (M through F) at 3.

Four hours of instruction and practical application in AC theory and electronics, fire control system, amplidyne, chemical warfare, atomic defense, guided missiles, and pilotless aircraft.

One hour of instruction and practical application in leadership, drill, and the exercise of command.

[97. *ADVANCED AIR FORCE ROTC*. Armament. Fall term. Not offered during the 1951-52 sessions.]

[98. *ADVANCED AIR FORCE ROTC*. Armament. Spring term. Not offered during the 1951-52 sessions.]

Naval Science

The Department of Naval Science offers an integrated four-year course which normally requires three classroom hours a week plus certain laboratory periods. Since all men enrolled in the NROTC are officer candidates, the Department of the Navy also requires summer cruises or tours of duty at shore establishments, the number and length of such assignments depending on whether the student is classified as Regular or Contract.

Entry as Regular NROTC students is attained through nationwide competitive examinations held each fall at a time announced by the Department of the Navy. Candidates who pass the examination with an acceptable score are given a physical examination. Those still eligible are interviewed and rated by state committees. Winning candidates are assigned to NROTC units, if possible at the college or university of their first choice.

For Regular students the government provides free tuition, fees, books, uniforms, and retainer pay at the rate of \$600 a year for four years. While in college, they are Midshipmen, U.S.N.R., and in addition to naval science courses are required to spend six to eight weeks each summer on cruises or aviation/amphibious training. On graduation, they are commissioned Ensigns in the Regular Navy or Second Lieutenants in the Marine Corps, and are required to serve on active duty for fifteen to twenty-four months. They may volunteer to serve for three years, and during their third year of service may apply for retention in the Regular Navy or Marine Corps. If selected they will continue as career officers. If they elect to terminate their Regular status, they will be placed on inactive duty in the Reserve component until their commissioned service totals a minimum of 6 years.

The Department of the Navy assigns a quota with respect to Contract students. Entry as a Contract student is attained by application to the Professor of Naval Science who makes final selections to fill the quota. The student pursues the same naval science course as the Regular NROTC Midshipmen but is required to participate in only one cruise of about three weeks' duration during one summer, usually between junior and senior years. The government provides uniforms and naval science textbooks but does not provide tuition or retainer pay. To third- and fourth-year students the government pays the commuted value of one ration a day, currently \$0.90, or approximately \$27 a month. Upon graduation students are commissioned as Ensigns in

the Naval Reserve or Second Lieutenants in the Marine Corps Reserve, and may volunteer for two years of active duty. If accepted under current quotas, they will receive commissions in the Navy and have the same options of service, including retention as permanent Regular officers, that Regular NROTC students have; otherwise they will be placed on inactive duty.

A candidate for Regular or Contract status must be a male citizen of the United States and must have reached his seventeenth birthday and not have passed his twenty-first birthday, on July 1 of the entering year, except that a student matriculating in a five-year course shall not have passed his twentieth birthday on July 1. A candidate must be unmarried, never have been married, and agree to remain unmarried until commissioned.

For further information write to the Professor of Naval Science, Naval ROTC Unit, Cornell University, Ithaca, New York.

101. *NAVAL HISTORY AND ORIENTATION*. Fall term. Credit 3 hours. Lecture/recitation 3 hours a week; laboratory W or Th 2-4. A study of American sea power as related to the growth of the United States from the Revolution through World War II; a study of organization of the Department of Defense, the customs, and the traditions of the Navy, and naval leadership. Required of all first-term Naval ROTC students.

102. *NAVAL HISTORY AND ORIENTATION*. Spring term. Credit 3 hours. Lecture/recitation 3 hours a week; laboratory W or Th 2-4. A study of naval organization, seamanship, maritime rules of the nautical road, leadership, and communications. Required of all second-term Naval ROTC students.

201. *NAVAL WEAPONS*. Fall term. Credit 3 hours. Lecture/recitation 3 hours a week; laboratory W or Th 2-4. A study of naval weapons and explosives. Required of all third-term Naval ROTC students.

202. *NAVAL WEAPONS*. Spring term. Credit 3 hours. Lecture/recitation 3 hours a week; laboratory W or Th 2-4. A study of fire control systems, radar, sonar, and guided missiles. Required of all fourth-term Naval ROTC students.

301. *NAVIGATION*. Fall term. Credit 3 hours. Lecture/recitation 3 hours a week; laboratory W or Th 2-4. A study of the theory and technique of surface navigation. Covers dead reckoning, piloting and maneuvering board. Required of all fifth-term Naval ROTC students except Marine Corps candidates.

301M. *HISTORY OF THE ART OF WAR*. Fall term. Credit 3 hours. Lecture/recitation 3 hours a week; laboratory W or Th 2-4. An introduction to the art of land war. Shows development of tactics and material by discussion of specific battles in European history. Required of all fifth-term Naval ROTC students who are candidates for Marine Corps commissions.

302. *NAVIGATION*. Spring term. Credit 3 hours. Lecture/recitation 3 hours a week; laboratory W or Th 2-4. A continued study of the theory and technique of surface navigation to include meteorology and celestial navigation. Required of all sixth-term Naval ROTC students except Marine Corps candidates.

302M. *UNITED STATES MILITARY HISTORY AND POLICY*. Spring term. Credit 3 hours. Lecture/recitation 3 hours a week; laboratory W or Th 2-4. A study of the military history of the United States from the Revolution through World

War II. The development of U.S. military policy and the concepts of military power. Required of all sixth-term Naval ROTC students who are candidates for Marine Corps commissions.

401. *NAVAL MACHINERY*. Fall term. Credit 3 hours. Lecture/recitation 3 hours a week; laboratory W or Th 2-4. A study of the different types of naval engineering propulsion plants. Required of all seventh-term Naval ROTC students except Marine Corps candidates.

401M. *AMPHIBIOUS WARFARE, PART I*. Fall term. Credit 3 hours. Lecture/recitation 3 hours a week; laboratory W or Th 2-4. A detailed study of the technique and history of amphibious warfare. Required of all seventh-term Naval ROTC students who are candidates for Marine Corps commissions.

402. *SHIP STABILITY, NAVAL JUSTICE, AND LEADERSHIP*. Spring term. Credit 3 hours. Lecture/recitation 3 hours a week; laboratory W or Th 2-4. A study of the principles of ship stability and buoyancy in the practices of damage control. A study of the procedures for and the responsibility of an officer in the administration of naval justice. A study to assist in the understanding of the psychology of leadership. Required of all eighth-term Naval ROTC students except Marine Corps candidates.

402M. *AMPHIBIOUS WARFARE, PART II; LEADERSHIP AND NAVAL JUSTICE*. Spring term. Credit 3 hours. Lecture/recitation 3 hours a week; laboratory W or Th 2-4. A continued study of the techniques of amphibious warfare. A study of the procedures for and the responsibility of an officer in the administration of naval justice. A study to assist in the understanding of the psychology of leadership. Required of all eighth-term Naval ROTC students who are candidates for Marine Corps commissions.

Physical Education

COURSES FOR MEN

All entering students are given a physical classification test. As a result of this and the physical examination given by the Department of Clinical and Preventive Medicine each student is given one of the four classifications, A, B, C, or D. Assignment to courses is made on the basis of this classification.

At the close of each term a classification test is given on the basis of which each student is assigned to one of five classifications, A, B, C, D, or E. Assignment to courses for the following term is made on the basis of this classification. Those classified E qualify to take an exemption examination. The Department of Physical Education will recommend those who successfully pass this examination for exemption from the balance of the physical training requirement.

1. *INDIVIDUAL CORRECTIVES*. Either term. Credit one hour. Open only to students assigned to Classification A by the Department of Clinical and Preventive Medicine. Three to five periods a week as assigned, M through F 2 to 5. OLD ARMORY.

Under the personal scrutiny of the Remedial Instructor, with weekly checks by the Department of Clinical and Preventive Medicine, each student here assigned receives individual attention according to his needs. Minor, as well as major, physical defects are treated. Marked development and improvement through this physical and recreational therapy enables students to transcend physical barriers.

2. *GROUP CORRECTIVES*. Either term. Credit one hour. Open only to students assigned to Classification B by the Department of Physical Education. Three periods a week as assigned, M through F, 9 to 1 and 2 to 5; S 9, 10, 11. OLD ARMORY.

Students are selected from departmental tests and include those who need special attention because of excessive obesity, hollow chests, poor arm and shoulder development, particular lack of co-ordination, and no previous physical skill ability. Since Classification B men differ so widely physically, individual routines are assigned, results are noted and carefully checked, and proper tests are given several times each term.

3. *BASIC PROGRAM*. Either term. Credit one hour. Open only to students assigned to Classification C by the Department of Physical Education. Three periods a week as assigned, M through F, 9 to 1 and 2 to 5; S 9, 10, 11. OLD ARMORY.

From classification tests given three times a year, this particular group forms itself. Students who fail to achieve high enough ratings to gain the choice play program are automatically assigned here. Effort, attitude, and individual capabilities are determining factors. This work is primarily a rigorous, general conditioner. Special emphasis is placed on arm, shoulder, leg, and abdominal development supplemented with simple skills, mass calisthenics, and limited use of apparatus.

4. *SPORTS PROGRAM*. Either term. Credit one hour. Open only to students assigned to Classification D by the Department of Physical Education. Three periods a week as assigned, M through F, 9 to 1 and 2 to 5:30; S 9, 10, 11. BARTON HALL and ALUMNI FIELDS.

An unlimited choice of activity is afforded each student. Offerings according to seasonal activities are as follows: badminton, basketball, bowling, boxing, golf (indoor and outdoor), Pershing Rifles, riding, soccer, speedball, tennis, volleyball, touch football, weight lifting, wrestling, advanced swimming. Varsity sports in season automatically excuse a student with a D classification from the required program. Attendance at all team practices is required in lieu of physical training. Varsity sports offerings are as follows: baseball, basketball, crew, cross country, fencing, football, golf, pistol, polo, rifle, skiing, soccer, swimming, tennis, track, wrestling. (The above may also include freshmen, 150-pound, and JV teams.)

5. *SWIMMING PROGRAM*. All entering students are required to take and pass the swimming test. It should be noted that successful completion of this test is a requirement of the Physical Education Department. Course offerings are as follows:

Corrective Swimming—Open only to students assigned by the Medical Department. M through F at 12.

Beginners' Swimming—Open only to nonswimmers. M through F. Hours to be assigned.

Advanced Swimming—Open only to students with Classification D. M through F. Hours to be assigned.

Open Swimming—Open to all University students subject to pool regulations. M through F. Hours to be assigned.

A.R.C. Life Saving and Water Safety Instructors' Course. Monday evening, 7:30, throughout second term. Prerequisite, A.R.C. Senior Certificate. Registration limited.

A.R.C. Life Saving—Water Safety Senior Course. Daily Monday through Friday, 4:30. Begins the week following Spring Recess. Registration limited.

A.R.C. Instructors' Refresher Course. Dates to be announced.

All tests and classes are given in the OLD ARMORY swimming pool.

COURSES FOR WOMEN

An orthopedic examination and motor ability tests are required of all freshmen and sophomore transfers during the first week of the fall term.

All students, with the exception of those classified under (a) or (b) below are required to take *Physical Education 51* during the fall or spring term of the freshman year.

(a) Those whose physical, orthopedic, or motor ability examinations indicate a need for individual instruction or restricted activity are assigned to Physical Education 53 or to specially designated activities in Physical Education 54.

(b) Those who receive an exceptionally high rating in the orthopedic and motor ability examinations may exempt Physical Education 51 and register for Physical Education 52 the fall or spring term of the freshman year.

Physical Education 52 is required of all physically qualified students immediately following the completion of Physical Education 51. During the remainder of the two-year requirement any of the activities

offered may be selected. Juniors and seniors may register without credit for activities of their choice.

At the end of the second term or any subsequent term students may be excused from the balance of the requirement by the Committee on Requirements for Graduation upon the recommendation of the Department of Physical Education.

51. *FUNDAMENTALS*. Either term. Credit one hour. Three periods a week as arranged.

Nine weeks of indoor work and six weeks of an outdoor sport selected from Physical Education 54. The indoor work is devoted to exercises for improving body control and discussion of the role of exercise, correct use of the body, and health habits in maintaining physical fitness.

52. *RHYTHMICS*. Either term. Credit one hour. Prerequisite, Physical Education 51. Three periods a week as arranged.

A study of a rhythmic basis for elementary movement with emphasis on body control. It is the aim to extend the student's natural movement facility and to stimulate a better understanding of dance as an art form through discussion, the presentation of dance in concert, lecture, and films.

53. *INDIVIDUAL GYMNASTICS*. Either term. Credit one hour. Open only to students recommended by the Medical or Physical Education staff. Three periods a week as arranged.

Nine weeks of indoor work consisting of prescribed exercises adapted to the individual student's needs and six weeks of an outdoor sport.

54. *ACTIVITIES*. Either term. Credit one hour. Three periods a week as arranged.

Nine weeks devoted to an indoor activity and six weeks to an outdoor activity.

Outdoor: Fall term —archery, golf, hockey, tennis

Spring term—archery, canoeing, golf, softball, tennis, life saving

Indoor: Fall term —badminton, basketball, bowling, golf, square and folk dancing

Spring term—badminton, bowling, golf, life saving, square and folk dancing

Throughout the term (15 weeks): intermediate dance (prerequisite, Physical Education 52), riding

100. *CAMP COUNSELOR TRAINING*. Spring term. Credit two hours. Lectures, first seven weeks M and W 2. Laboratory, second seven weeks, 2 to 4. Miss STEWART. Register at Sage Gymnasium office.

A study of the aims and value of camping; types, organization, and administration of camps; qualifications and responsibilities of the counselors; laboratory instruction in campcraft.

THE DANCE. The following courses are designed to offer background in the history of the dance, experience in composition of dance forms and in technique of dance movement. In addition to the assigned meetings, there is a rehearsal schedule to meet production demands throughout the term. Register at Sage Gymnasium office.

200. *PRECLASSIC DANCE FORMS*. Either term. Credit three hours. Consent of the instructor. M 4:30, T 4:30, Th 7:30. Miss ATHERTON assisted by Mrs. ROB-INSON.

201. *MODERN DANCE FORMS*. Either term. Credit three hours. Prerequisite, Dance 200. M 4:30, T 4:30, Th 7:30. Miss ATHERTON assisted by Mrs. ROBINSON.

202. *CHOREOGRAPHY FOR SOLO AND GROUP*. Either term. Credit three hours. Prerequisite, Dance 201. M 4:30, T 4:30, Th 7:30. Miss ATHERTON assisted by Mrs. ROBINSON.

203-204. *INFORMAL STUDY*. Either term or throughout the year. Credit three hours. Open only to exceptionally qualified students. Prerequisite, Dance 202 and consent of the instructor. Hours to be arranged. Miss ATHERTON.

Clinical and Preventive Medicine

The Department of Clinical and Preventive Medicine, besides offering clinical services for students who are ill, contributes to their total educational experience by offering academic courses. These courses are designed to give instruction in matters of health. They range in scope from nutritional subjects to problems of mental health. Both the individual and public health aspects are considered.

[103-104. *ADVANCED FIRST AID*. Fall or spring term. Credit two hours. Dr. SHOWACRE. Not offered in 1951-52.]

[108. *MENTAL HYGIENE*. Spring term. Credit three hours. Open to sophomores and upperclassmen. M W F 11. Dr. DARLING. Not offered in 1951-52.]

[202. *PERSONAL AND COMMUNITY RESPONSIBILITY FOR HEALTH*. Fall term. Credit two hours. Open to upperclassmen (minimum registration, 25). Th 4-6. Dr. MOORE and associates. Not offered in 1951-52.]

375. *PUBLIC HEALTH NUTRITION TECHNIQUES*. Fall term. Credit one hour. Registration by consent of instructor. W 9. SAVAGE HALL. Mrs. BERRESFORD.

A discussion of the function of the public health nutritionist in official and voluntary agencies at the national, state, and local level and a study of various techniques employed in executing a nutrition program, such as low-cost budgeting, racial diet patterns, interviewing, evaluation and preparation of educational materials and visual aids, clinic procedures, consultation to institutions, and nutrition education in schools.

381-382. *FIELD OBSERVATION AND EXPERIENCE IN COMMUNITY NUTRITION*. Given throughout the year, either or both terms. Credit two hours per term. Prerequisite or parallel, C.P.M. 375. Registration by consent of the instructor. For School of Nutrition and Graduate School students. Two half-days a week as arranged. Mrs. BERRESFORD.

Supervised observation and experience in the community nutrition program of a county health unit. Supervision is provided by a qualified nutritionist.

392. *CLINICAL AND PUBLIC HEALTH NUTRITION*. Spring term. Credit two hours. Prerequisites, a course in nutrition, in physiology, and in biochemistry. Registration by permission of instructor. For School of Nutrition and Graduate School students. T Th 12. SAVAGE HALL 145. Miss YOUNG and members of the medical staff.

This course is designed to familiarize the student with some of the applications of nutrition to clinical and public health problems.

Faculty

Deane Waldo Malott, A.B., M.B.A., LL.D., *President of the University.*
Carleton Chase Murdock, Ph.D., *Dean of the Faculty and Chairman
of the Committee on Requirements for Graduation.*

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Col. George S. Smith, *Artillery, U.S. Army, Co-ordinator of the Military
Departments, Professor of Military Science and Tactics, and Com-
manding Officer of the Army ROTC.*

ASSISTANT PROFESSORS

Col. William E. Jennings, *Veterinary Corps, U.S. Army.*
Lt. Col. Kermit W. Campbell, *Quartermaster Corps, U.S. Army.*
Lt. Col. Victor C. Warren, *Signal Corps, U.S. Army.*
Major Arvel C. Stafford, *Artillery, U.S. Army.*
Major Kenneth E. Nelson, *Ordnance Corps, U.S. Army.*
Major Daniel T. Delaney, *Quartermaster Corps, U.S. Army.*
Major Charles E. Woodard, *Quartermaster Corps, U.S. Army.*
Major George M. Calvert, *Quartermaster Corps, U.S. Army.*
Captain Frank A. Dwyer, *Quartermaster Corps, U.S. Army.*
Captain Myron H. Dakin, *Signal Corps, U.S. Army.*
Captain Alan C. McKittrick, *Artillery, U.S. Army.*
Captain Charles D. O'Connor, *Artillery, U.S. Army.*
Captain Henry O. Sitler, *Quartermaster Corps, U.S. Army.*

INSTRUCTOR

First Lieut. Robert M. Griswold, *Artillery, U.S. Army.*

DEPARTMENT OF AIR SCIENCE AND TACTICS

Col. George T. Crowell, *U.S. Air Force, Professor of Air Science and
Tactics and Commanding Officer of the Air Force ROTC.*

ASSISTANT PROFESSORS

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Major Belvie R. Lowrance, *U.S. Air Force.*
Major James H. Searle, *U.S. Air Force.*
Major George C. Snyder, *U.S. Air Force.*
Captain James E. Sever, *U.S. Air Force.*

DEPARTMENT OF NAVAL SCIENCE

Captain Frederic S. Habecker, *U.S. Navy, Professor of Naval Science and Commanding Officer of the Naval ROTC.*

ASSISTANT PROFESSORS

Comdr. C. V. Zalewski, *U.S. Navy.*
 Major R. T. Knox, *U.S. Marine Corps.*
 Lieutenant James F. Roohan, Jr., *U.S. Navy.*
 Lieutenant S. W. Gipson, *U.S.N.R.*
 Lieutenant A. C. Bessette, *U.S. Navy.*
 Lieutenant (j.g.) Richard S. Baird, *U.S. Navy.*

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 E. B. Wilson, Ph.B., *Director of Physical Training for Men.*
 Miss Dorothy H. Bateman, *Director of Physical Training for Women.*
 C.V.P. Young, A.B., *Professor of Physical Education, Emeritus.*

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H. M. Bougus, B.S.	Richard Lewis, A.B.
W. G. Bruska, B.S.	G. S. Little
Georges L. Cointe, A.B.	T. J. McGory, Jr.
R. L. Cullen, B.S.	E. J. Miller, Jr., B.S.
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J. E. Gallagher, M.L.	L. W. Schoel, M.Ed.
Thomas Granowitz, B.S.	R. H. Smith, B.S.
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G. L. Hall	D. B. Williams, M.Ed.
F. J. Kavanagh	

INSTRUCTORS FOR WOMEN

Miss May Atherton	Miss Iris Carnell, M.S.
Mrs. Kerstin Baird, M.A.	Miss Lois Flight, A.B.
Mr. Joseph Zelic	Mrs. Gertrude Robinson, A.B.
	Miss Mary Stewart, M.S.
	Miss Muriel Brenner, M.A.

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Paul Darsie, M.D.	Edward C. Showacre, M.D.
Helen Elston, M.D., <i>Research Associate</i>	John Summerskill, M.D.
Jennette Evans, M.D.	Henry B. Wightman, M.D.
Grace Fiala, A.B., <i>Research Associate</i>	Harold H. Williams, Ph.D., <i>Research Associate</i>
J. W. Hirshfeld, M. D., <i>Research Associate</i>	Jocelyn Woodman, M.D., <i>Research Associate</i>
	Charlotte Young, Ph.D.

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